

AD-A054 136

TELEDYNE GEOTECH ALEXANDRIA VA ALEXANDRIA LABS

F/G 8/11

SPECIAL DATA COLLECTION SYSTEM (SDCS) EASTERN KAZAKH, SSR, 07 D--ETC(U)

MAR 78 M S DAWKINS

F08606-78-C-0007

UNCLASSIFIED

SDCS-ER-76-124

NL

| OF |

AD  
A054136

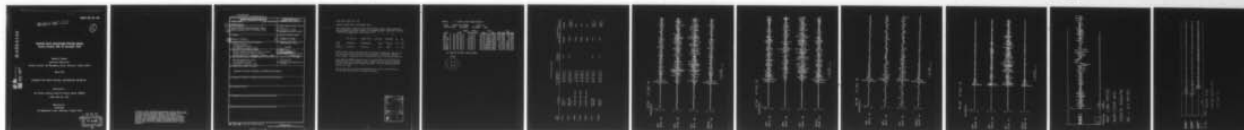


END

DATE  
FILMED

6 -78

DDC



SDCS-ER-76-124

FOR FURTHER TRANSMISSION

(1)

AD A 054136

AD No. \_\_\_\_\_  
DDC FILE COPY

**SPECIAL DATA COLLECTION SYSTEM (SDCS)**  
**Eastern Kazakh, SSR, 07 December 1976**

**Michael S. Dawkins**

**Alexandria Laboratories**

**Teledyne Geotech, 314 Montgomery Street, Alexandria, Virginia 22314**

**March 1978**

**APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.**

**Sponsored by**

**The Defense Advanced Research Projects Agency (DARPA)**

**ARPA Order No. 2551**

**Monitored by**

**AFTAC/VSC**

**312 Montgomery Street, Alexandria, Virginia 22314**

DDC  
RECEIVED  
MAY 22 1978  
B

Disclaimer: Neither the Defense Advanced Research Projects Agency nor the Air Force Technical Applications Center will be responsible for information contained herein which has been supplied by other organizations or contractors, and this document is subject to later revision as may be necessary. The views and conclusions presented are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the Defense Advanced Research Projects Agency, the Air Force Technical Applications Center, or the US Government.

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER <b>24</b> SDCS-ER-76-124	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) <b>6</b> SPECIAL DATA COLLECTION SYSTEM (SDCS) Eastern Kazakh, SSR, 07 December 1976		5. TYPE OF REPORT & PERIOD COVERED <b>9</b> Technical Rept.
7. AUTHOR(s) <b>10</b> Michael S. Dawkins		6. PERFORMING ORG. REPORT NUMBER
8. CONTRACT OR GRANT NUMBER(s)		9. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS LPN VT/8709
10. PERFORMING ORGANIZATION NAME AND ADDRESS Teledyne Geotech 314 Montgomery Street Alexandria, Virginia 22314		11. REPORT DATE <b>12</b> 20 March 1978
11. CONTROLLING OFFICE NAME AND ADDRESS Defense Advanced Research Projects Agency Nuclear Monitoring Research Office 1400 Wilson Blvd. Arlington, Virginia 22209		12. NUMBER OF PAGES 12 <b>12/13 p.</b>
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) VELA Seismological Center 312 Montgomery Street Alexandria, Virginia 22314		13. SECURITY CLASS. (of this report) Unclassified
15. DECLASSIFICATION DOWNGRADING SCHEDULE		
16. DISTRIBUTION STATEMENT (of this Report)  APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)		

DD FORM 1 JAN 73 1473

EDITION OF 1 NOV 65 IS OBSOLETE

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

445 601

54

SDCS Event Report No. 124

Eastern Kazakh, SSR, 07 December 1976,

LP This The event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is provided.

	"P" Arrival	Origin Time	Latitude	Longitude	$m_b$	$M_s$
LASA	05:09:30.0	Unpublished	48.5N	082.5E	5.8	N/A
and Hagfors	05:04:11.2	04:57:10	51N	078E	7.1	N/A

HN-ME, RK-ON, NT-NV, and NT2NV were operational during this time period, and all recorded positive short-period signals. Horizontal channels were rotated. Long-period at all operational SDCS stations was negative.

Both LASA and NORSAR waveform data were recoverable from the SDAC/VELA Network detection processing system. NORSAR recorded positive signals in both short-period and long-period modes. Only the short-period was positive at LASA.

Scaling factors on plots are millimicrons at 1 Hz for SP and 0.04 Hz for LP (not corrected for instrument response).

ACCESSION for	
NTIS	White Section <input checked="" type="checkbox"/>
DDC	Buff Section <input type="checkbox"/>
UNANNOUNCED	<input type="checkbox"/>
JUSTIFICATION	
BY	
DISTRIBUTION/AVAILABILITY CODES	
Dist.	SPECIAL
A	



PREDA -- TRAVEL TIME PREDICTIONS --

07DEC INPUT FOR EVENT 7 DEC 76  
 04:57:00.0 50.000N 79.000E 0KM.

STA.				SURF( 0KM.)		DIST		AZI
		TIME		TRAV.TIME		DEG.	KM.	EVT-STA STA-EVT
HPS	P	05 04 11.9		7:11.9		37.22	4138.9727	311.262 75.749
NAO	P	05 04 22.0		7:22.0		38.42	4271.7109	312.945 74.590
RK-ON	P	05 09 06.5		12:06.5		79.34	8822.7148	355.280 4.804
HN-ME	P	05 09 10.3		12:10.3		80.03	8898.9531	337.387 20.915
LAO	P	05 09 29.0		12:29.0		83.59	9294.4375	3.615 356.611
NT-NV	P	05 10 10.2		13:10.2		92.04	10234.0000	12.252 350.115
NT2NV	P	05 10 10.4		13:10.4		92.08	10238.4727	12.152 350.198
OB3NV	P	05 10 10.5		13:10.5		92.13	10244.2227	11.973 350.344
OB2NV	P	05 10 10.5		13:10.5		92.14	10244.9961	11.977 350.342

67 HERPIN TRAVEL TIME TABLES

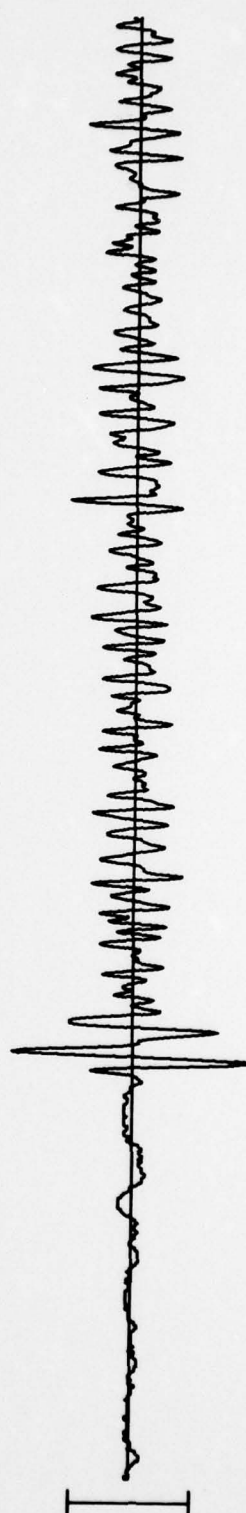
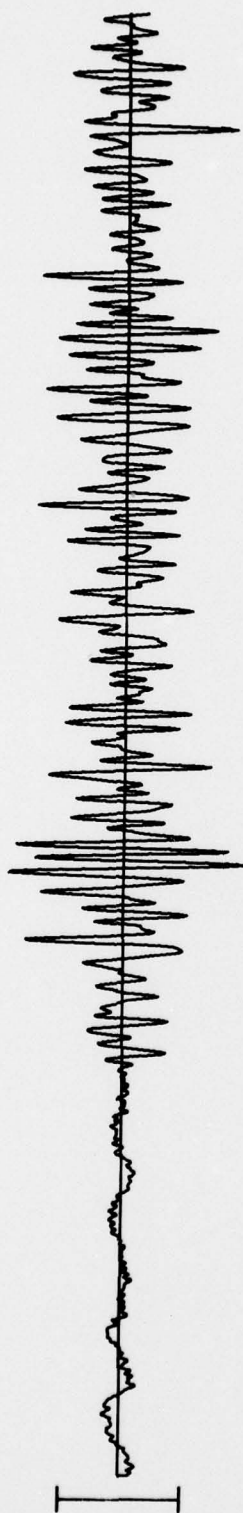
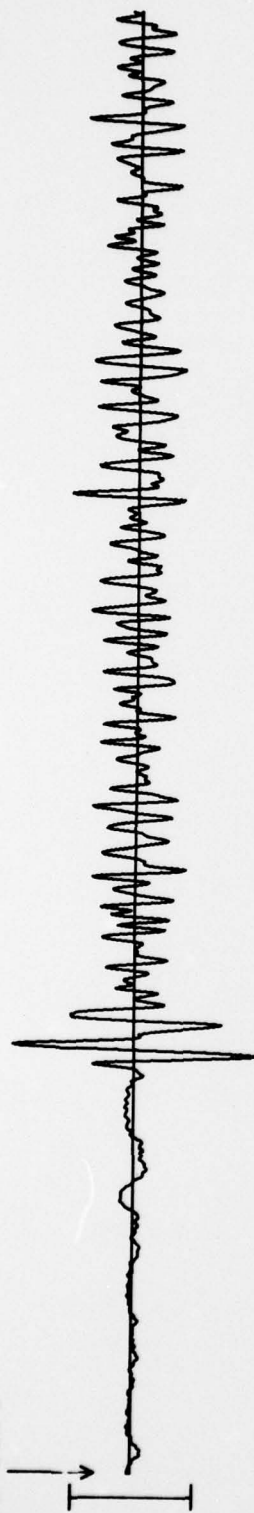
	SURF
2 . 5	
2 . 0	
0 0. 0 0	
. . . . .	
0 0. 0 0	
0 . 0	
0 . 0	

## STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	INSTRUMENTATION	
				SHORT-PERIOD	LONG-PERIOD
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	KS36000	KS36000
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
OB2NV	Nevada Test Site	37 13 31.0 N 116 03 28.0 W		18300	N/A
NT-NV	Nevada Test Site	31 16 33.0 N 116 25 06.0 W		18300	N/A
NT2NV	Nevada Test Site	37 15 16.0 N 116 18 13.0 W		18300	N/A
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H

NT2NV 07 DEC 76

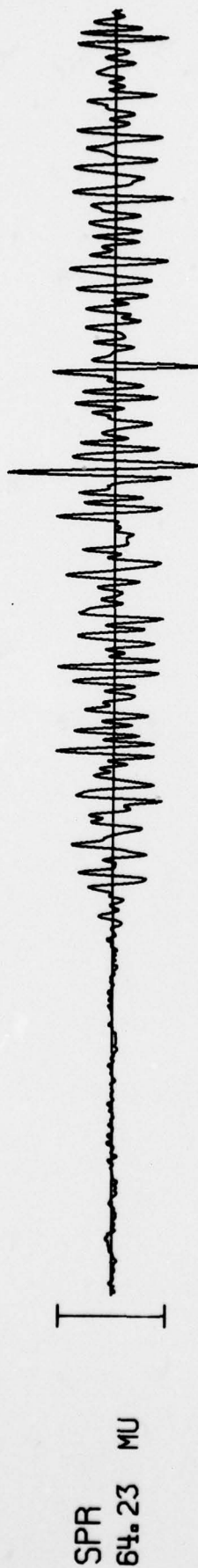
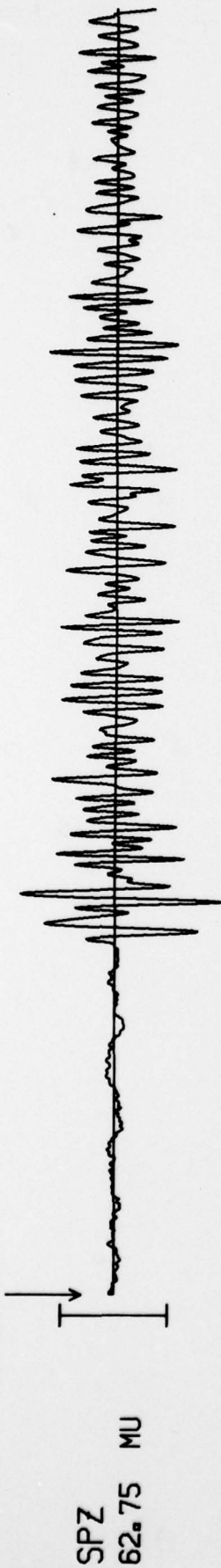
05:09:55.0



10 SEC



NT-NV 07 DEC 76  
05:09:55.0

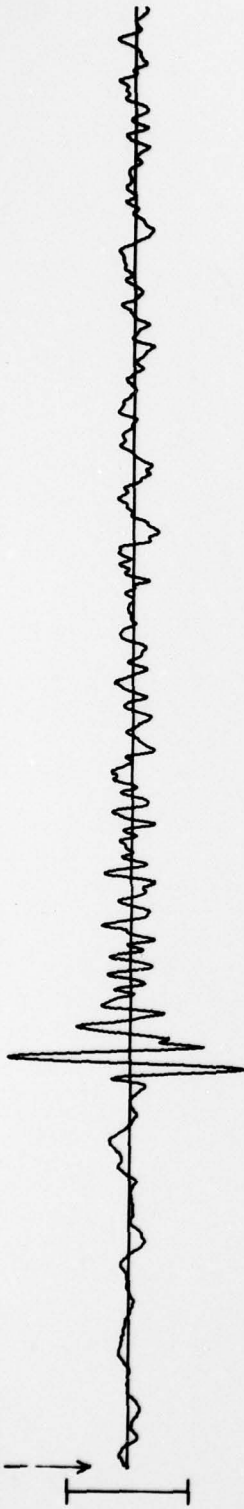


HN-ME 07 DEC 76

05:08:55.0

SPZ

138.30 MU



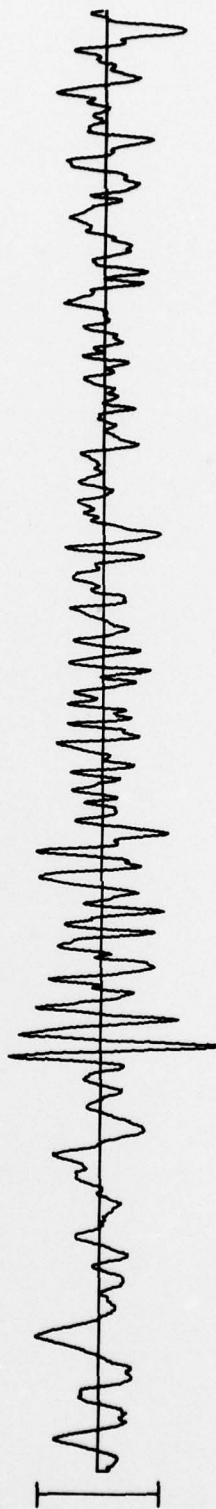
SPR

62.21 MU



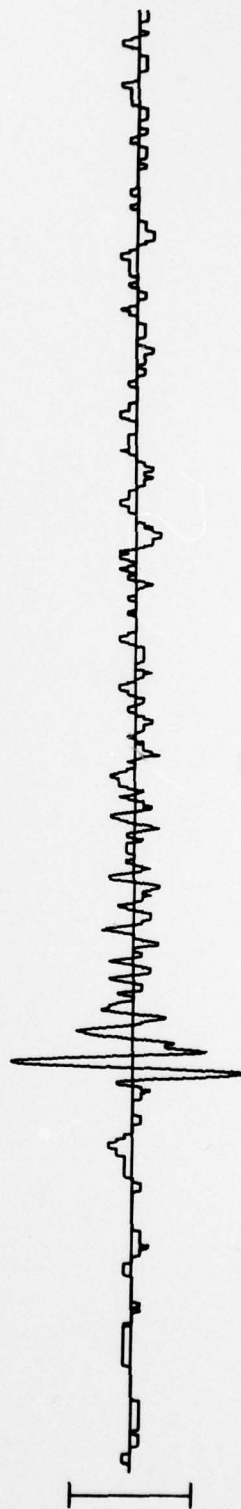
SPT

36.07 MU



SPZLO

139.79 MU



10 SEC

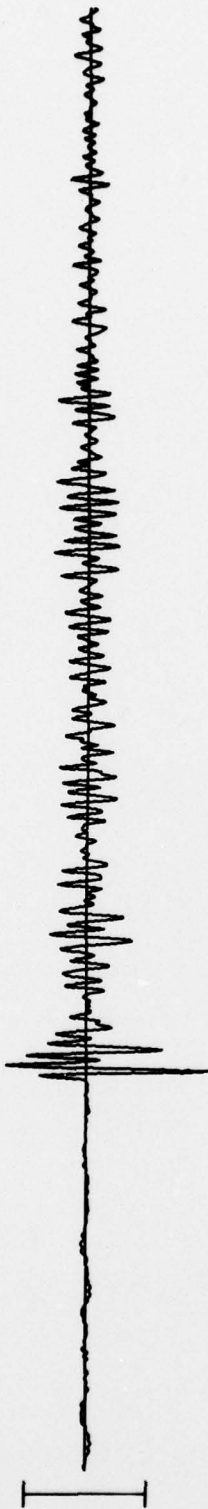
RK-ON 07 DEC 76

05:08:50.0

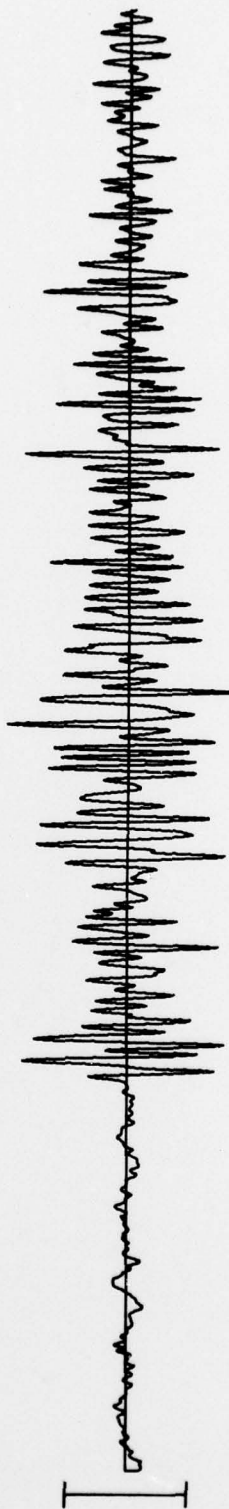
SPZ  
392.86 MU



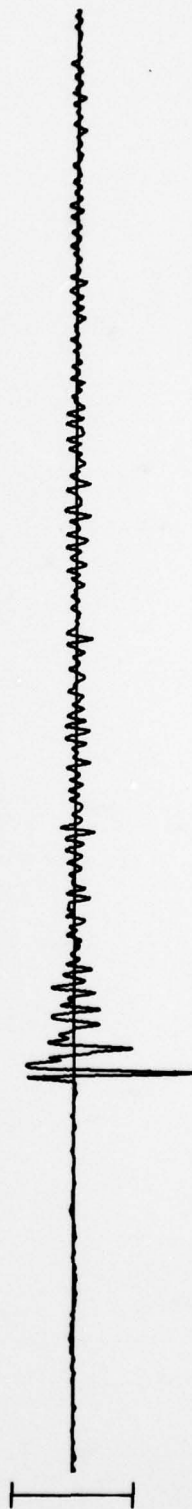
SPR  
160.59 MU



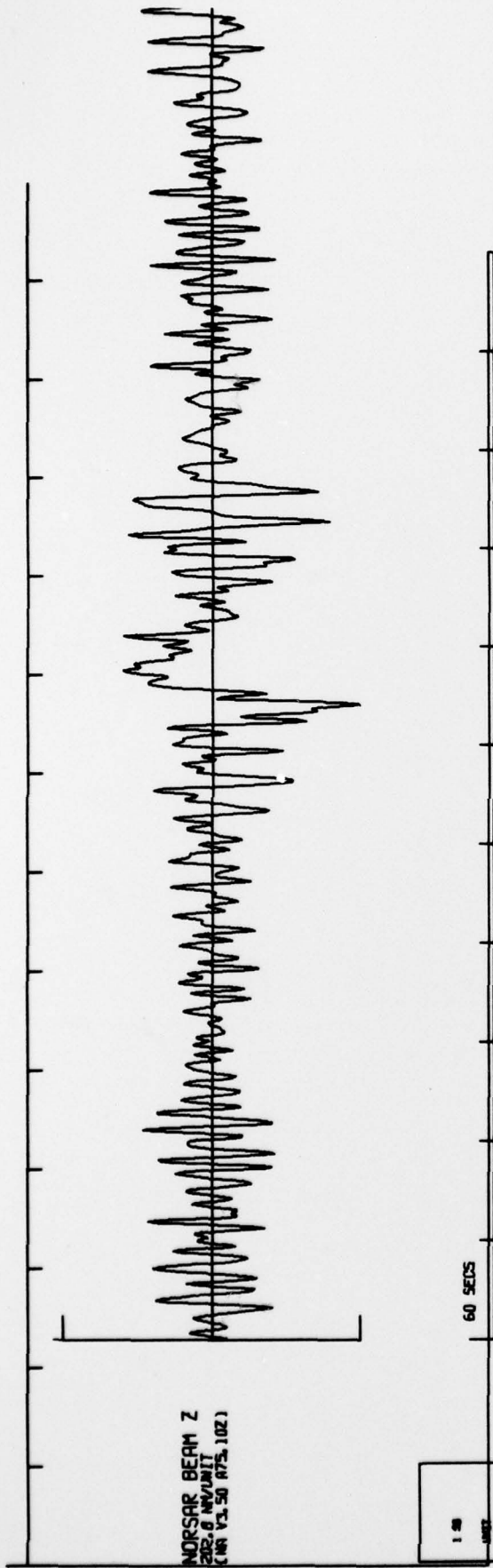
SPT  
53.22 MU



SPZLO  
425.05 MU



10 SEC



NAO LONG PERIOD

· BEAM-STEER DATA

07DEC76 50NX079E

VEL = 3.5 KM/SEC



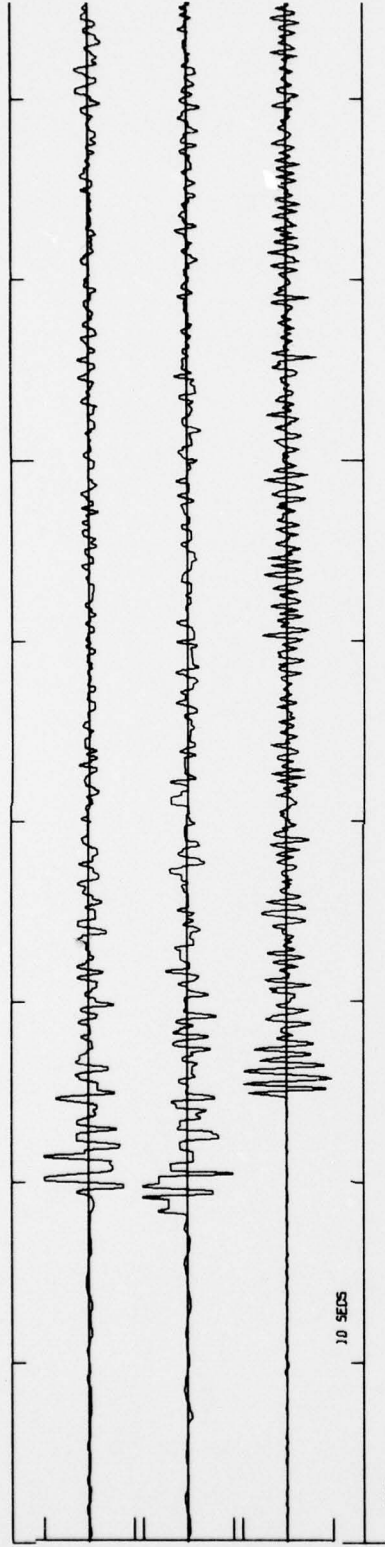
NA0108HN604Z  
278.5 MW/UNIT  
(MAY SP 1)

NA0108HN666Z  
278.5 MW/UNIT  
(MAY SP 2)

NA0108HN752Z  
278.5 MW/UNIT  
(MAY SP 3)

1 MW  
UNIT

TIME 5.0 SEC/UNIT



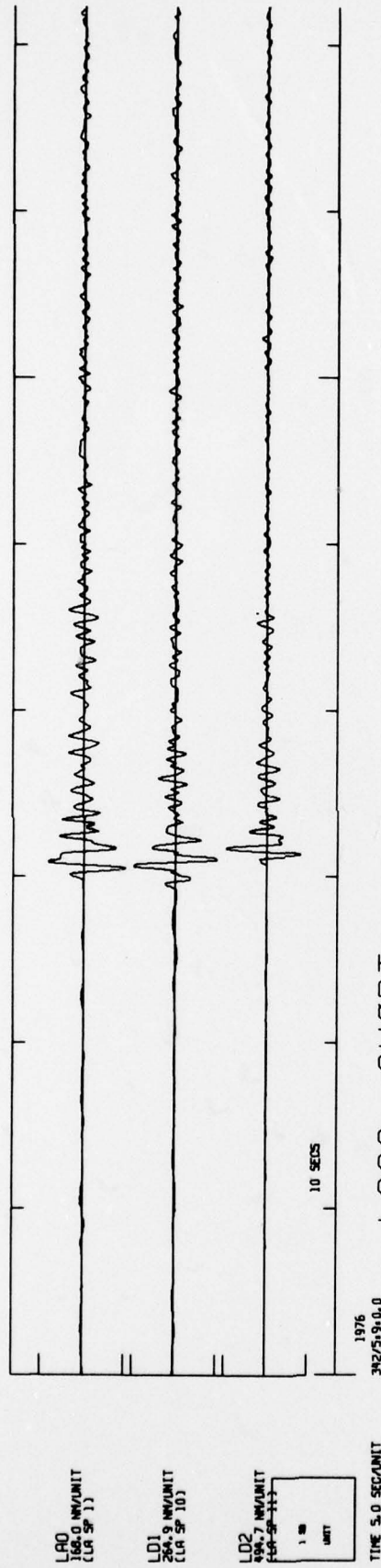
1976

342/54.0.0

NORSAR SHORT

PERIOD BEAMS FOR

07 DEC 76



1976  
342/519:0.0

LASA SHORT  
PERIOD SUBARRAYS  
FOR 07 DEC 76